

# KENWOOD

Listen to the Future



## TK-2160/3160

Compact VHF/UHF FM Portable Radios

**FleetSync®**  
by KENWOOD

### GENERAL FEATURES

- 5 W (136-174 MHz)
- 4 W (450-490, 470-512, 400-430 MHz)
- 16 Conventional Channels
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert / Scan / Warn LED
- 3 PF keys
- Orange Emergency / AUX Key
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Emergency Call Features
- QT / DQT
- Two-Tone Decode<sup>1</sup>
- Single / Two-Tone Encode<sup>1</sup>
- DTMF Encode / Decode<sup>2</sup>
- Special Alert Tone Pattern<sup>3</sup>
- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver
- Windows® Programming & Tuning<sup>4</sup>
- Windows® Firmware Uploading<sup>4</sup>
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

### FleetSync®

- PTT ID Digital ANI
- Emergency Status
- Selective Call (single ID)



## Options

### ■ KNB-25A

Ni-Cd Battery Pack  
(1,200mAh)

### ■ KNB-26N

Ni-MH Battery Pack  
(2,000mAh)

### ■ KNB-35L

Li-ion Battery Pack  
(7.4V/1950mAh)

### ■ KNB-40LC

Li-ion Battery Pack  
(7.4V/1950mAh) I.S.

### ■ KBP-5

Battery Case

### ■ KSC-25

Rapid Charger

### ■ KSC-30

Charger for KNB-25A  
and KNB-26N



### ■ KRA-22

VHF Low Profile  
Helical Antenna

### ■ KRA-23

UHF Low Profile  
Helical Antenna

### ■ KRA-26

VHF Helical Antenna

### ■ KRA-27

UHF Whip Antenna

### ■ KMC-17

Speaker Microphone



### ■ KMC-21

Speaker Microphone

### ■ KEP-2

Earphone Cord Kit  
for KMC-17

### ■ KHS-1

Head Set with VOX/PTT

### ■ KHS-22

Head Set

### ■ KVC-3

Regular Rate Vehicular  
Charger Adapter  
(for KSC-30)

### ■ KVC-4

Rapid Rate Vehicular  
Charger Adapter  
(for KSC-25)



### ■ KHS-7A

Lightweight Single  
Muff Headset

### ■ KHS-8BL

2-wire Palm Mic with  
Earphone (Black)

### ■ KHS-9BL

3-wire Lapel Mic  
with Earphone (Black)

### ■ KLH-138

Leather Case

### ■ KBH-12

Belt Clip



## Specifications

All accessories and options may not be available in all markets.  
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Model	TK-2160	TK-3160
<b>GENERAL</b>		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Type 2	—	470-512 MHz
Type 3	—	400-430 MHz
Number of Channels	Max. 16	
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	5, 6.25kHz
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle)		
with KNB-25A (1200mAh)	Approx. 8 hours	
with KNB-26N (2000mAh)	Approx. 12 hours	
with KNB-35L (1950mAh)	Approx. 11 hours	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C) [-14°F ~ +140°F (-10°C ~ +60°C) when KNB-24L/26N in use]	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38MHz	40MHz
Type 2	—	42MHz
Type 3	—	30MHz
Dimensions (W x H x D), Projections not included		
Radio Only	2.2" x 4.3" x 0.72" (56 x 109.3 x 18.4mm)	
with KNB-35L	2.2" x 4.3" x 1.35" (56 x 109.3 x 34.5mm)	
with KNB-25A	2.2" x 4.3" x 1.6" (56 x 109.3 x 40.7mm)	
with KNB-26N	2.2" x 4.3" x 1.6" (56 x 109.3 x 40.7mm)	
Weight		
Radio Only	5.8oz (165g)	
with KNB-35L	10.2oz (290g) without antenna	
with KNB-25A	12.5oz (355g) without antenna	
with KNB-26N	14.1oz (400g) without antenna	

Model	TK-2160	TK-3160
GENERAL		
FCC ID		
Type 1	ALH36413110	ALH36423110
Type 2	—	ALH36423120
Type 3	—	ALH36423130
IC Certification		
Type 1	282D-36413110	282D-36423110
Type 3	—	282D-36423130
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/62dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	
Audio Output	500 mW with less than 10% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	5W/1W	4W/1W
Spurious Response	70dB	
Modulation		
Wide/Narrow	16K0F3E/11K0F3E	
FM Noise		
Wide/Narrow	45/43dB	45/40dB
Audio Distortion	Less than 5%	

Kenwood follows a policy of continuous advancement in development.  
For this reason specifications may be changed without notice.  
FleetSync® is a registered trademark of KENWOOD Corporation in the United States and/or other countries.

## Applicable MIL-STD & IP

Standards	Methods/Procedures MIL-STD 810C	Methods/Procedures MIL-STD 810D	Methods/Procedures MIL-STD 810E	Methods/Procedures MIL-STD 810F
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
<b>International Protection Standard</b>				
Dust & Water Protection	IP54/55			

footnotes from Front:

<sup>1</sup> Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone

Encode (1 tone).

<sup>2</sup> DTMF includes PTT ID, Emergency ANI & Stun.

<sup>3</sup> Special Alert Tone Pattern operates for 2-Tone & DTMF selective

call decode only (1 pattern of 16 tones).

<sup>4</sup> KPG-82D required: Windows® 98/ 2000/ Me/XP compatible;

English/Spanish screen languages.

# KENWOOD



ISO9001 Registered  
Communications Equipment Division  
Kenwood Corporation  
ISO9001 certification